

## Electronic Acknowledgement Receipt

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|---|---|
| <b>EFS ID:</b>                              | 5068980   |
| <b>Application Number:</b>                  | 10825021  |
| <b>International Application Number:</b>    |   |
| <b>Confirmation Number:</b>                 | 7500  |
| <b>Title of Invention:</b>                  | System and method for topology-aware job scheduling and backfilling in an HPC environment |
| <b>First Named Inventor/Applicant Name:</b> | Shannon V. Davidson   |
| <b>Customer Number:</b>                     | 45507   |
| <b>Filer:</b>                               | Justin N. Stewart/Christine Fortier   |
| <b>Filer Authorized By:</b>                 | Justin N. Stewart.  |
| <b>Attorney Docket Number:</b>              | 064747.1017   |
| <b>Receipt Date:</b>                        | 31-MAR-2009   |
| <b>Filing Date:</b>                         | 15-APR-2004   |
| <b>Time Stamp:</b>                          | 14:57:25  |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)   |

### Payment information:

|  |                 |
|--|-----------------|
| Submitted with Payment                   | yes             |
| Payment Type                             | Deposit Account |
| Payment was successfully received in RAM | \$ 180          |
| RAM confirmation Number                  | 264             |
| Deposit Account                          | 020384          |
| Authorized User                          |                 |

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

## File Listing:

| Document Number                                 | Document Description                                 | File Name     | File Size(Bytes)/<br>Message Digest                | Multi Part /.zip | Pages (if appl.) |
|---|--|---------------|--|------------------|------------------|
| 1   | Information Disclosure Statement Letter              | IDSLetter.pdf | 43686<br>002aac340b0c74c76c7b0dd7a0555c978ced5726  | no               | 2                |
| <b>Warnings:</b>                                |  |               |  |                  |                  |
| <b>Information:</b>                             |  |               |  |                  |                  |
| 2   | Information Disclosure Statement (IDS) Filed (SB/08) | IDS.pdf       | 57237<br>75c1e242e6038f85d107bc778f525a511c9cab    | no               | 1                |
| <b>Warnings:</b>                                |  |               |  |                  |                  |
| <b>Information:</b>                             |  |               |  |                  |                  |
| This is not an USPTO supplied IDS fillable form |  |               |  |                  |                  |
| 3   | NPL Documents  | 39.pdf        | 1158282<br>4779c4c0d21404517195d15409c2851f187916  | no               | 13               |
| <b>Warnings:</b>                                |  |               |  |                  |                  |
| <b>Information:</b>                             |  |               |  |                  |                  |
| 4   | NPL Documents  | 40.pdf        | 654924<br>74abc9180dc2bc4706c1c0f8906c570a2707e435 | no               | 8                |
| <b>Warnings:</b>                                |  |               |  |                  |                  |
| <b>Information:</b>                             |  |               |  |                  |                  |
| 5   | NPL Documents  | 41.pdf        | 733229<br>a03c3749d6d3c63c0200f016817c73d6f1d0022  | no               | 8                |
| <b>Warnings:</b>                                |  |               |  |                  |                  |
| <b>Information:</b>                             |  |               |  |                  |                  |
| 6   | NPL Documents  | 42.pdf        | 557228<br>a5c255412cc063d0543caab0dd6db40704a0930  | no               | 6                |
| <b>Warnings:</b>                                |  |               |  |                  |                  |
| <b>Information:</b>                             |  |               |  |                  |                  |
| 7   | NPL Documents  | 43.pdf        | 882948<br>9291d013aa085d1863d705cab10b6c610c552ab  | no               | 11               |
| <b>Warnings:</b>                                |  |               |  |                  |                  |
| <b>Information:</b>                             |  |               |  |                  |                  |
| 8   | NPL Documents  | 44.pdf        | 400953<br>d17180cc90c20d4c51ba750ab0a2005d1410a5d0 | no               | 6                |
| <b>Warnings:</b>                                |  |               |  |                  |                  |
| <b>Information:</b>                             |  |               |  |                  |                  |

|  |                        |              |   |    |    |
|--|------------------------|--------------|---|----|----|
| 9  | NPL Documents          | 45.pdf       | 136098<br>eb11685967178cc58758e178e05102d15f4793    | no | 3  |
| Warnings:  |                        |              |   |    |    |
| Information:   |                        |              |   |    |    |
| 10   | NPL Documents          | 46.pdf       | 539324<br>4e65ebc6c7de22979a0d888b161c72bd971918    | no | 12 |
| Warnings:  |                        |              |   |    |    |
| Information:   |                        |              |   |    |    |
| 11   | NPL Documents          | 47.pdf       | 520404<br>506742ec19b4903748b7797db1ff0a073c0b8c3d9 | no | 14 |
| Warnings:  |                        |              |   |    |    |
| Information:   |                        |              |   |    |    |
| 12   | Fee Worksheet (PTO-06) | fee-info.pdf | 30116<br>bd47020935d89e06441241745cd27cadff8a2f     | no | 2  |
| Warnings:  |                        |              |   |    |    |
| Information:   |                        |              |   |    |    |
| Total Files Size (in bytes):   |                        |              | 5714429   |    |    |
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| <u>New Applications Under 35 U.S.C. 111</u><br>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.  |                        |              |   |    |    |
| <u>National Stage of an International Application under 35 U.S.C. 371</u><br>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.  |                        |              |   |    |    |
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